

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
8 January 2004 (08.01.2004)

PCT

(10) International Publication Number  
**WO 2004/002331 A1**

(51) International Patent Classification<sup>7</sup>: **A61B 17/16**

(21) International Application Number:  
PCT/KR2003/001250

(22) International Filing Date: 25 June 2003 (25.06.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
10-2002-0037408 29 June 2002 (29.06.2002) KR

(71) Applicant and

(72) Inventor: Lee, Hee-Young [KR/KR]; Kangnam Plastic  
Sugery, 12-7, Jungang-ro 1th, Kunsan, Cholrabukdo  
573-041 (KR).

(74) Agent: Chang, Ill-Hwan; 34-2 Gosa-dong 1th,  
Wansan-gu, Jeonju-si, Cholrabuk-do 560-060 (KR).

(81) Designated States (national): AE, AG, AL, AM, AT, AU,  
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,

CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,  
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK,  
LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX,  
MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD,  
SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US,  
UZ, VC, VN, YU, ZA, ZM, ZW.

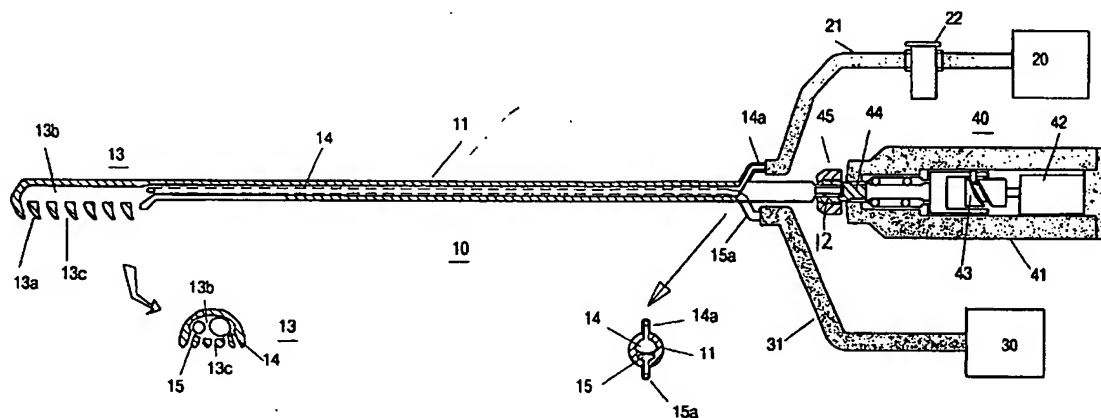
(84) Designated States (regional): ARIPO patent (GH, GM,  
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),  
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,  
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,  
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,  
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the  
claims and to be republished in the event of receipt of  
amendments

For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: FACIAL BONE CONTOURING DEVICE USING HOLLOWED RASP PROVIDED WITH NON-PLUGGING HOLES  
FORMED THROUGH CUTTING PLANE



(57) Abstract: Disclosed is a facial bone contouring device for use in facial bone contouring surgery and bone tumor and/or osteo-  
phyte removal. The facial bone contouring device comprises: a rasp (10), having a double tube structure, including a rod (11), and a  
cutter (13) provided with plural grooves (13c) for exhausting cut bone fragments, a saline solution feeding passage (15) and a bone  
fragment exhausting passage (14); a powered surgical handpiece (40) connected to the rasp (10) for providing linear reciprocating  
motion to the rasp (10); a saline solution feeding unit (30) for feeding saline solution to the saline solution feeding passage; and a  
suction unit (20) for sucking and exhausting the cut bone fragments, wherein bone cutting is performed under the condition that the  
saline solution is fed into the rasp, and the cut bone fragments are exhausted together with the saline solution so that the bone cutting  
is continuously performed.

WO 2004/002331 A1